

## AMENDMENTS TO THE CLAIMS

1-28. (Cancelled)

29. (Currently Amended) A digital television receiver module for use in a digital television receiver, wherein the digital television receiver module ~~can connect~~ connects decoders of devices with front-end circuits and conditional access (CA) modules made differently for respective broadcast specifications, the digital television receiver module comprising:

a first connecting device having ~~a common terminal~~ a plurality of terminals for electrically connecting to one external substrate among external substrates which ~~receives can~~ receive digital television signals of broadcasting systems different from each other;

a first common terminal group commonly assigned in the first connecting device based on a predetermined terminal table, the first common terminal group connecting front-end circuits provided in the external substrates and that are compliant with the broadcasting systems;

a decoding device for executing a decoding processing on a digital television signal inputted from a demodulator provided on ~~said the~~ external substrate via ~~said the~~ first connecting device, so as to convert the digital television signal into a video signal and an audio signal, and for outputting the video signal and audio signal via ~~said the~~ first connecting device;

a control device for controlling an operation of ~~said the~~ digital television receiver module;  
~~and~~

a second common terminal group commonly assigned in the first connecting device based on the predetermined terminal table, the second common terminal group connecting a plurality of types of CA modules having terminal specifications including input and output directions of one of signal types and signals different from each other; and

~~an interface device which is connected to one conditional access module among a plurality of types of conditional access modules having electrical specifications different from each other via said first connecting device, and which is connected to said demodulator, said decoding device, and said control device, said an~~ an interface device for ~~executing input and output processes processing~~ executing input and output ~~on a plurality of signals communicated among the CA modules, the decoding device and the control device, said demodulator, said conditional access module, said decoding device, and said control device;~~

wherein the interface device comprises at least one set of a first input buffer, a first output buffer, and a second input buffer, the first input buffer including an input terminal connected to one terminal of the second common terminal group, and an output terminal connected to the decoding device,

the first output buffer includes an input terminal connected to the control device, and an output terminal connected to one terminal of the second common terminal group, the second input buffer including an input terminal of another terminal of the second common terminal group and an output terminal connected to the decoding device, and

wherein said the control device controls said the interface device by changing types and electrical specifications of at least one signal of a plurality of signals communicated via said first connecting device, by changing a signal type, input direction and output direction of the signal communicated via a terminal of the second common terminal group by controlling on-off states of the first input buffer, on-off states of the first output buffer, and on-off states of the second input buffer, based on the predetermined terminal table so as to conform to electrical the terminal specifications of a connected conditional access CA module; in and in response to at least one of a broadcasting system of an inputted digital television signal and a type of the said connected CA conditional access module; and said interface device comprises a plurality of buffers, and said control device controls on off states of respective buffers in said interface device so as to control the input and output processings, and based on a type-classifying data signal inputted from a memory mounted on the external substrate via the first connecting device.

30. **(Currently Amended)** The digital television receiver module as claimed in claim 29, wherein said the interface device outputs a digital television signal inputted from said the demodulator to said the decoding device and said a conditional access CA module via said the first connecting device.

31. **(Cancelled)**

32. **(Currently Amended)** The digital television receiver module as claimed in claim 29, wherein, when said a conditional access CA module is not connected to said the control device via said the first connecting device, said the control device controls said the interface device

so that a detection signal from ~~said the conditional access CA~~ module is outputted to ~~said the~~ control device.

33. **(Currently Amended)** The digital television receiver module as claimed in claim 30, wherein, when a first type ~~conditional access CA~~ module among ~~said the~~ plurality of types of ~~conditional access CA~~ modules is connected to ~~said the~~ control device via ~~said the~~ first connecting device, ~~said the~~ control device controls ~~said the~~ interface device so that a digital television signal inputted from ~~said the~~ connected ~~conditional access CA~~ module via ~~said the~~ first connecting device is outputted to ~~said the~~ decoding device.

34. **(Currently Amended)** The digital television receiver module as claimed in claim 33, wherein ~~said the~~ control device outputs a first power-supply voltage to ~~said the~~ connected ~~conditional access CA~~ module via ~~said the~~ first connecting device, and controls ~~said the~~ interface device so that an address signal and a data signal from ~~said the~~ control device are outputted to ~~said the~~ connected ~~conditional access CA~~ module via ~~said the~~ first connecting device on the first power-supply voltage.

35. **(Currently Amended)** The digital television receiver module as claimed in claim 33, wherein ~~said the~~ first type ~~conditional access CA~~ module is a ~~conditional access CA~~ module of a Common Interface.

36. **(Currently Amended)** The digital television receiver module as claimed in claim 30, wherein, in such an initial state that a second type ~~conditional access CA~~ module among ~~said the~~ plurality of types of ~~conditional access CA~~ modules is connected to ~~said the~~ control device via ~~said the~~ first connecting device, ~~said the~~ control device controls ~~said the~~ interface device, so that a second power-supply voltage is outputted to ~~said the~~ connected ~~conditional access CA~~ module via ~~said the~~ first connecting device, a digital television signal inputted from ~~said the~~ connected ~~conditional access CA~~ module via ~~said the~~ first connecting device is outputted to ~~said the~~ decoding device, and an address signal and a data signal from ~~said the~~ control device are outputted to ~~said the~~ connected ~~conditional access CA~~ module via ~~said the~~ first connecting device on the second power-supply voltage.

37. **(Currently Amended)** The digital television receiver module as claimed in claim 36, wherein, in such an operating state that is after the initial state that ~~said the~~ second type ~~conditional-access-CA~~ module among ~~said the~~ plurality of types of ~~conditional-access-CA~~ modules is connected to ~~said the~~ control device via ~~said the~~ first connecting device, ~~said the~~ control device controls ~~said the~~ interface device, so that a clock signal inputted from ~~said the~~ connected ~~conditional-access-CA~~ module via ~~said the~~ first connecting device is outputted to ~~said the~~ decoding device, a control signal inputted from ~~said the~~ demodulator via ~~said the~~ first connecting device is outputted to ~~said the~~ connected ~~conditional-access-CA~~ module via ~~said the~~ first connecting device, and a control signal inputted from ~~said the~~ connected ~~conditional-access-CA~~ module via ~~said the~~ first connecting device is outputted to ~~said the~~ demodulator via ~~said the~~ first connecting device.

38. **(Currently Amended)** The digital television receiver module as claimed in claim 36, wherein ~~said the~~ second type ~~conditional-access-CA~~ module is a ~~conditional-access-CA~~ module of a cableCARD.

39. **(Currently Amended)** The digital television receiver module as claimed in claim 29, further comprising a further interface device for connecting a third type ~~conditional-access-CA~~ module to ~~said the~~ interface device and ~~said the~~ control device.

40. **(Currently Amended)** The digital television receiver module as claimed in claim 29, wherein ~~said the~~ third type ~~conditional-access-CA~~ module is a ~~conditional-access-CA~~ module of an IC card.

41. **(Currently Amended)** The digital television receiver module as claimed in claim 39, further comprising a device for selectively switching over between:

(a) a first state that ~~said the~~ first connecting device is connected to ~~said the~~ interface device; and

(b) a second state that ~~said the~~ first connecting device is connected to ~~said the~~ further interface device.

42. **(Currently Amended)** The digital television receiver module as claimed in claim 29, wherein ~~said~~the digital television receiver module comprises a substrate having a plurality of layers, and

wherein a capacitor layer substrate on which a plurality of thin-film capacitors are mounted and a resistance layer substrate on which a plurality of thin-film resistances are mounted, are sandwiched between a first signal wiring layer substrate and a second signal wiring layer substrate.

43. **(Currently Amended)** The digital television receiver module as claimed in claim 29, wherein, via ~~said~~the first connecting device, ~~said~~the digital television receiver module ~~is connectable~~can connect to one of the following:

(a) a first type external substrate conforming to a first broadcasting system, and comprising a first type demodulator and a second connecting device which ~~connect~~can connect ~~said~~the first type ~~conditional access-CA~~ module thereto; and

(b) a second type external substrate conforming to a second broadcasting system, and comprising a second type demodulator and a second connecting device which ~~can connect~~said connect the second type ~~conditional access-CA~~ module thereto.

44. **(Currently Amended)** The digital television receiver module as claimed in claim 29, wherein ~~said~~the control device detects a type of ~~said~~the external substrate and a broadcasting system of the inputted digital television signal, based on a type-identifying data signal inputted from ~~said~~the external substrate via ~~said~~the first connecting device, and

wherein, based on a detected broadcasting system, ~~said~~the control device controls an operation of ~~said~~the decoding device and switches over among the types of the signals communicated via ~~said~~the first connecting device so as to control ~~said~~the interface device.

45. **(Currently Amended)** The digital television receiver module as claimed in claim 44, wherein the type-identifying data signal is generated so as to differ depending on the type of ~~said~~the external substrate, by connecting or not connecting ~~said~~the external substrate to a ground conductor.

46. **(Currently Amended)** The digital television receiver module as claimed in claim 44, wherein the type-identifying data signal is a signal of read-out data which is obtained by reading out data stored in a memory mounted on ~~said~~the external substrate so as to differ depending on the type of ~~said~~the external substrate.

47. **(Currently Amended)** The digital television receiver module as claimed in claim 46, wherein the broadcasting system includes at least one of a digital video broadcasting-terrestrial (DVB-T) system, an advanced television systems committee (ATSC) system and an integrated services digital broadcasting-terrestrial (ISDB-T) system.

48. **(Currently Amended)** The digital television receiver module as claimed in claim 29, further comprising a third connecting device for connecting a plurality of types of function expansion substrates, ~~said~~the plurality of types of function expansion substrates having functions different from each other to expand a function of ~~said~~the digital television receiver module.

49. **(Currently Amended)** The digital television receiver module as claimed in claim 48, wherein ~~said~~the function expansion substrates include at least one of a network function expansion board for connection to a network, and a cable television (CATV) modem function expansion board for connection to a head end of a CATV.

50-56. **(Cancelled)**